

Narrow Band High Power Amplifiers - Rackmount

FEATURES:

- ❖ Coverage From 1MHz to 45.0 GHz
- ❖ Up to 1000 Watt Output Power (at 1dB Compression Point)
- ❖ Single Bias (+15VDC & +28VDC) Power Supply
- ❖ Compact/Rugged Thin-Film Construction
- ❖ Economically Priced



DESCRIPTION:

CNP- R Series

Cernex manufactures a solid-state linear design of broadband high power linear applications in the RF frequency range. This rack mount amplifier utilizes Power MOSFET Push-Pull devices that provide high gain, wide dynamic range, low distortions and good linearity. Exceptional performance, long term reliability and high efficiency are achieved by employing advanced broadband RF matching networks and combining techniques, built-in high quality power supply, EMI/RFI filters, and qualified components

SPECIFICATIONS:

Model Number	Frequency Range (MHz)	Gain (dB) Min.	SS Flatness (+/-dB) Max.	NF (dB) Max.	P1dB (dBm) Min.	IP3 (dBm) Typ.	VSWR In/Out Max.	VAC 100-260V @W Max.	Case Type
CNPH1V35453R	1.5-32	54	1.5	10	53	58	2:1(typ)	800	19 x 5.25 x 22
CNPH1V35656R	1.5-32	56	1.5	10	56	65	2:1(typ)	1875	19 x 5.25 x 22
CNPH1V36058R	1.5-32	60	1.5	10	58.5	*	2:1(typ)	3400	19 x 8.75 x 22
CNPH2H55653R	2-5	56	1.0	12	53	56	*	120(typ)	19 x 3.5 x 18
CNPV3U42453R	30-400	24	1.5	10	53	61	*	40**	19 x 5.25 x 22
CNPV3U45453R	30-400	54	1.5	10	53	61	*	1400	19 x 5.25 x 22
CNPV3U45654R	30-400	56	1.5	10	54.5	63	2:1	2000	19 x 8.25 x 22
CNPU1U25654R	100-250	56	1.5	10(typ)	54.5	62	*	1800	19 x 5.25 x 22
CNPU1U26058R	100-250	60	1.5	10(typ)	58.5	65	*	3000	19 x 8.75 x 22
CNPU3U74645R	350-760	46	1.5	10	45	55	2:1	250	19 x 3.5 x 18
CNPU3U75049R	370-760	50	1.5	10	49	58	2:1	400	19 x 5.25 x 22
CNPU4U44250R	400-450	42	1.0	20(typ)	50	*	2:1(Min)	1100	19 x 5.25 x 22
CNPU4U44656R	400-450	46	1.0	10	56	*	2:1(Min)	2300	19 x 5.25 x 22
CNPU4U46058R	400-450	60	1.0	10	58.5	68	-10(Min)	3800	19 x 8.75 x 22
CNPU4U55453R	400-500	54	1.0	10	53	63	-10(Min)	1500	19 x 5.25 x 22
CNPU4U56059R	400-550	60	1.0	10	59	69	-10(Max)	5000	17 x 14 x 22
CNPU4U85252R	470-806	52	1.0	10	52	*	2:1	40**	19 x 5.25 x 22
CNPU6U85252R	600-806	52	1.0	10	52	*	2:1	45**	19 x 5.25 x 22
CNPU8U96059R	800-900	60	2.0	10(typ)	59	69	*	5000	17 x 14 x 22
CNPU8015252R	800-1000	52	1.0	10	52	62	-10(Max)	800	19 x 5.25 x 22
CNPU8015655R	800-1000	56	1.5	10	55	62	*	1800	19 x 5.25 x 22



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CNPU8015253R	800-1300	52	1.5	10	53	64	2:1	1800	19 x 8.75 x 22
CNP01016464R	1025-1150	64(typ)	*	20(typ)	64	*	*	500(typ)	19 x 8.75 x 22
CNP01015050R	1000-1400	50	1.0	10	50	61	2:1	600	19 x 5.25 x 22
CNP01015250R	1000-1400	52	*	14	50.5	60	2:1	1200	19 x 5.25 x 22
CNP01015059R	1000-1500	50	0.75	10(typ)	59(Max)	60/57	-10(Min)	800	19 x 8.75 x 22
CNP01015047R	1000-1400	50	1.0	10	47	62	*	900	19 x 8.75 x 22
CNP01014653R	1200-1300	46	1.0	10	53	64	1.5:1 typ	1500(typ)	19 x 8.75 x 22
CNP01016060R	1600-1700	60	1.0	10	60	*	2:1(typ)	9600	21.8 x 33.5 x 30
CNP01015049R	1700-1900	50	1.0	10	49	58	2:1	600	19 x 5.25 x 22
CNP01016057R	1750-1850	60	1.0	10	57.5	67	2:1(typ)	7000	22 x 31.5 x 25
CNP01023646R	1800-2200	36	1.5	27	46.5	56	1.5:1	300	19 x 3.5 x 18
CNP01024846R	1800-2200	48	1.5	10	46.5	56	2:1	300	19 x 3.5 x 18
CNP02025251R	2025-2120	52	1.0	10	51.5	60	-10(Max)	800	19 x 5.25 x 22
CNP02024545R	2200-2300	45	1.0	10	45	54	2:1	250	19 x 3.5 x 18
CNP02025250R	2425-2475	52	1.0	10(typ)	50.5	61	-10(Min)	1600	19 x 5.25 x 22

OTHER FREQUENCY BANDS & HIGHER POWER ARE ALSO AVAILABLE.

* CONSULT THE FACTORY.

** Current @+28VDC

CERNEX RESERVE THE RIGHT TO CHANGE THE SPECIFICATIONS WITHOUT NOTICE